

Message

From: Cummings, James [Cummings.James@epa.gov]
Sent: 2/4/2019 7:40:52 PM
To: Grant Trigger [gtrigger@racertrust.org]
CC: Libelo, Laurence [Libelo.Laurence@epa.gov]
Subject: RE: PFAS pilot
Attachments: AFIT UV Oxidation paper.pdf

Thanks.

Did not know whether you came across the attached in your literature searches.

From: Grant Trigger <gtrigger@racertrust.org>
Sent: Monday, February 04, 2019 12:39 PM
To: Cummings, James <Cummings.James@epa.gov>
Subject: RE: PFAS pilot

Welcome back!

We ahev one round done and will start a second this week have requested a summary to share hope to have it early next week

Thanks

Grant Trigger
Cleanup Manager – Michigan

RACER Trust
500 Woodward Avenue, Suite 2650
Detroit, MI 48226
gtrigger@racertrust.org
(734) 879-9524 (office)

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From: Cummings, James <Cummings.James@epa.gov>
Sent: Monday, February 4, 2019 10:41 AM
To: Grant Trigger <gtrigger@racertrust.org>
Subject: RE: PFAS pilot

We are back in business. Checking in to see how things are going.

Also as I looked back through the message traffic from you, I did not see much substantive information. One of your msgs indicated that there were some IP issues.

Apologies if I missed it or it came from someone else, but could you (re-)send, esp if the pilot got underway in Dec as hoped?

I understand that there will be a meeting with Barnes Johnson in the next month or so, so I want to make sure I am up to speed.

Thanks.

From: Grant Trigger <gtrigger@racertrust.org>
Sent: Wednesday, December 19, 2018 4:19 PM
To: Cummings, James <Cummings.James@epa.gov>
Subject: RE: PFAS pilot

got it

Thanks

Grant Trigger
Cleanup Manager -- Michigan

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From: Cummings, James <Cummings.James@epa.gov>
Sent: Monday, December 17, 2018 12:44 PM
To: Grant Trigger <gtrigger@racertrust.org>
Subject: RE: PFAS pilot

Here is the citation to the SITE program demo of UV/Ox that I mentioned.

Let me know if it does not come through in some usable form.

Regards/

From: Grant Trigger <gtrigger@racertrust.org>
Sent: Tuesday, December 04, 2018 10:11 AM
To: Cummings, James <Cummings.James@epa.gov>

Cc: Woolford, James <Woolford.James@epa.gov>; Elliott Laws <elaws@racertrust.org>

Subject: RE: PFAS pilot

James

We are planning to start the first round of field tests on December 13 – you are welcome to check in – observe – or offer any comments or insights

Also your email noted an early UV/Ox demonstration I have been working to assemble the best info on UV/OX and if you could send me a copy or cite to that demonstration report - I want make sure I have complete info -if you are ware of other resources we should be looking into please let me know

Thanks

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From: Cummings, James <Cummings.James@epa.gov>

Sent: Tuesday, October 9, 2018 5:17 PM

To: Grant Trigger <gtrigger@racertrust.org>

Cc: Woolford, James <Woolford.James@epa.gov>

Subject: RE: PFAS pilot

Got it. Interesting that they think that they have IP issues. One of the earliest SITE program demonstrations was for a UV/OX system.

But then PFAS's are 'special.

From: Grant Trigger [<mailto:gtrigger@racertrust.org>]

Sent: Tuesday, October 09, 2018 4:53 PM

To: Cummings, James <Cummings.James@epa.gov>

Subject: RE: PFAS pilot

James (Jim?)

We have been bumping this pilot along – and surprise - contracting issues are still muddling - but I wanted to get you the concept pending contract stuff so we can chat about your insights

The A2 group noted in these materials is a startup with IP issues – so I do not have “inside the black box” info to share with you – it’s a UV light and ozone/ maybe peroxide system concept

GHD has been our lead consultant for years on this site and has responsibility for pretreatment etc The local utility that we discharge to has been patient and is working with us on overall solutions

Michigan Department of Environmental Quality is my lead agency – and after you look this over we can discuss maybe a call with MDEQ I am strong believer in more heads in the creative world can maybe lead to better results – so I thank you in advance for taking a look at this

Thanks

Grant Trigger
Cleanup Manager – Michigan

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From: Cummings, James <Cummings.James@epa.gov>
Sent: Tuesday, August 14, 2018 2:57 PM
To: Grant Trigger <gtrigger@racertrust.org>
Cc: Elliott Laws <elaws@racertrust.org>; Woolford, James <Woolford.James@epa.gov>
Subject: RE: PFAS pilot

Jim Woolford told me to expect your communicate.

Standing by.

I have been doing this sort of thing for a long time. In my experience, rather than wait for highly polished products, the sooner I get information the better.

Regards/

From: Grant Trigger [<mailto:gtrigger@racertrust.org>]
Sent: Tuesday, August 14, 2018 2:29 PM
To: Cummings, James <Cummings.James@epa.gov>
Cc: Elliott Laws <elaws@racertrust.org>
Subject: PFAS pilot

Mr. Cummings

Elliott Laws passed your name to me – I am organizing the proposed advanced oxidation pilot program in Michigan for PFAS – I expect to have an updated program outline in the next few days and would be most appreciative of any input or assistance you can offer.

Will get back to you soon

Thanks

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Cleanup Manager – Michigan

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